

ABSTRACT OF THE DISCLOSURE

The invention provides isolated nucleic acids molecules, designated 47169 and 33935 nucleic acid molecules, which encode novel glycosyl transferases. The 5 invention also provides antisense nucleic acid molecules, recombinant expression vectors containing 47169 and 33935 nucleic acid molecules, host cells into which the expression vectors have been introduced, and non-human transgenic animals in which a 47169 or 33935 gene has been introduced or disrupted. The invention still further provides isolated 47169 and 33935 proteins, fusion proteins, antigenic peptides and anti-47169 10 and anti-33935 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.

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